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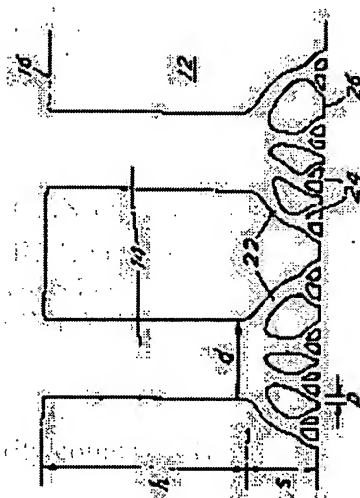
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(54) POROUS ANODIC ALUMINUM OXIDE MEMBRANE AND ITS PRODUCTION

(57)Abstract:

PURPOSE: To prevent the loss of performance by defects by maintaining the extension distance of a small pore system greater than 1 micron.

CONSTITUTION: The membrane 12 has two major surfaces 16, 26 and the system of larger pores 14 extend into the membrane over the distance h inwardly from the one surface 16. These larger pores have a diameter d near their inner ends and the system of the smaller pores 22, 24 extend into the membrane over the distance S inwardly from the other surface. These smaller pores have the substantially uniform min. diameter p. At this time, $d=10\text{ nm to }2\text{ microns}$, $h=0.1\text{ to }100\text{ microns}$, $p=\text{over }1\text{ micron up to }5\text{ microns}$. When the metallic surface of aluminum is anodized by using a certain kind of an electrolyte, the porous anodic aluminum oxide membrane is formed. As a result, the occurrence of the defects is lessened.



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